

FROLIKOVA, Ye.Ya.; KOZHEVNIKOVA, M.S.

Supports of upstream slopes of earth dams of water reservoirs  
in Central Asia. Vop. gidr. no. 12:68-79 '63. (MIRA 17:5,

BOBROV, B.S. (Ryazan'); GRYAZNOV, A.L. (Ryazan'); GRYAKALOV, V.A. (Ryazan');  
SAL'NIKOV, V.Ya. (Ryazan'); UDALOV, V.F. (Ryazan'); FROLIN, M.I.  
(Ryazan'); SHKHALAKHOV, Yu.Sh. (Ryazan')

System for the automatic control of distributed objects using  
operating lines of automatic telephone exchanges as communication  
channels. Avtom. i telem. 24 no.11:1593-1596 N '63.  
(MIRA 16:12)

**FROLKIN, A.V.**

Completing the preparation of the signaling and communication system.  
Avtom. telex. i svyaz' 3 no.8:12 Ag '59. (MIRA 13:2)

1. Nachal'nik sluzhby signalizatsii i svyazi Yugo-Vostochnoy dorogi.  
(Railroads--Signaling)  
(Railroads--Communication systems)

FROLKIN, A.V., pensioner

Discussion of the article "Problems of planning and cost accounting  
in signaling and communication districts." Avtom. telem. i svyaz'  
8 no. 3:44 Mr '64. (MIRA 17:5)

1. Byvshiy nachal'nik sluzhby signalizatsii i svyazi Yugo-  
Vostochnoy dorogi.

LEBEDYANSKIY, A.A.; TARUNIN, V.F.; FROLKIN, F.F.; BARYSHEV, Yu.D.;  
GUR'YEV, O.V.

New method of heating piston rings before high-frequency hardening;  
submitted by A.A. Lebedianskii and others. Prom. energ. 13 no.5:17  
My '58. (MIRA 11:8)  
(Electric heating) (Piston rings)

FROLKIN, M.

~~XXXXXXXXXX~~  
Agricultural experimenters ought to be on every farm. Nauka i  
pered.op.v sel'khoz. 9 no.1:70 Ja '59. (MIRA 13:3)

1. Kolhoz "Zhivotnovod," Kadomskogo rayona, Ryazanskoy oblasti.  
(Agriculture--Experimentation)

TEKUCHEV, A.N.; FROLIN, M.I.; UDALOV, V.F.; GRYAZNOV, A.L.; BOBROV, B.S.

Automatic device for testing permanent magnets by residual  
induction and coercive force. Izv.tekh. no.4:37-39 Ap '63.  
(MIRA 16:5)

(Magnets--Testing)

FROLKIN, M.V.

FROLKIN, M.V., opytnik; RABOTNOV, T.A., doktor biol. nauk.

~~Rowan, excellent vitamin feed. Nauka i pered. op. v sel'khoz. 7~~  
Rowan, excellent vitamin feed. Nauka i pered. op. v sel'khoz. 7  
no.12:56 D '57. (MIRA 11:1)

(Rowan)



SOV/26-59-3-47/47

3(3)

AUTHOR: Frolkin, M.V. (Poltevy Pen'ki, Ryazanskaya Oblast')

TITLE: March in the Meshchera

PERIODICAL: Priroda, 1959,<sup>48</sup> Nr 3, p 128 (USSR)

ABSTRACT: The author describes the month of March in the Meshchera with special regard to the birds to be met there in March, e.g. the great spotted woodpecker and the blue tit in the first ten days, rocks in the second, and field larks and starlings in the third ten days.

Card 1/1

LEYBMAN, Moisey Yefimovich; FROLKIN, V.G., kand.tekhn.nauk, retsenzent;  
KHRISANOV, Ye.L., inzh., retsenzent; IVANOV-TSYGANOV, A.I., kand.  
tekhn.nauk, red.; MOROZOVA, P.B., izdat.red.; PUKHLIKOVA, N.A.,  
tekhn.red.

[Pulse techniques] Impul'snaya tekhnika. Moskva, Gos.nauchno-  
tekhn.izd-vo Oborongiz, 1960. 206 p. (MIRA 13:10)  
(Pulse techniques (Electronics))



L 7643-66 EWT(1)/EWA(h) GG

ACC NR: AP5024989

SOURCE CODE: UR/0286/65/000/016/0051/0051

AUTHOR: Frolkin, V. G.

22

B

ORG: none

TITLE: Contactless commutation device for disconnecting three-phase supply systems. Class 21, No. 173831

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 16, 1965, 51

TOPIC TAGS: switching circuit, electronic switch, high power switch

ABSTRACT: This Author Certificate presents a contactless <sup>25</sup>commutation device for disconnecting three-phase supply systems, e.g., mine cables. The device contains a power transformer, a three-phase rectifier bridge, and controllable rectifiers. To increase the response rate, the rectifier bridge is connected to the input of the power transformer secondary (see Fig. 1). The mentioned rectifiers, which are controlled by a signal received from a detector monitoring the isolation state of the cable supply system, are placed at the bridge output.

Card 1/2

UDC: 621.316.96.066.63

2

L 7643-66

ACC NR: AP5024989

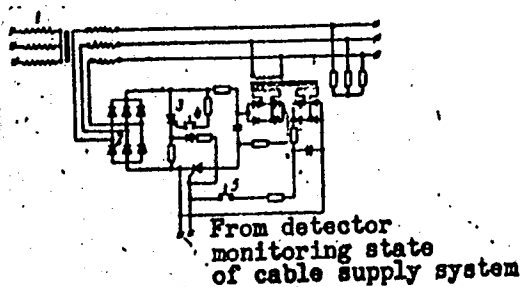


Fig. 1. 1- power transformer; 2- Larionov rectifier bridge;  
3- controllable silicon rectifier; 4- "start" button;  
5- "stop" button

Orig. art. has: 1 diagram.

SUB CODE: EC, KE/ SUBM DATE: 01Apr64

Card 2/2

LYAKISHEV, P.P.; FROLKIN, V.M.

Automatic regulation of water heating. Sbor.rats.predl.vnedr.v  
proizv. no.1:42-43 '61. (MIRA 14:7)

1. Novo-Tul'skiy metallurgicheskiy zavod.  
(Electric controllers)

MARKUS, John; FROLKIN, V.T., redaktor; GRESSEN, L.V., redaktor; NIKIFOROVA, A.N., tekhnicheskiiy redaktor.

[Handbook of industrial electronic circuits] Tekhnicheskie primeneniia elektronno-lampovykh skhem. Perevod s angliiskogo. Pod red. V.T.Frolkina. Izd. 2-e. Moskva, Izd-vo inostrannoi lit-ry, 1954. 509 p.  
(Electron-tube circuits) (MLRA 7:11)

*FROLKIN, V.T.*

TERMAN, F.; PETTIT, J.M. ; DULIN, V.N. [translator] FROLKIN, V.T.,  
redaktor; GESSEN, L.V., redaktor; GERASI'KOVA, Ye.S., tekhnicheskiiy redaktor

[Electronic measurements. Translated from the English] Izmeritel'naya tekhnika veelektronike. Per.s angliiskogo V.N. Dulina. Pod red. V.T.Frolkina. Moskva, Izd-vo inostrannoi lit-ry 1955. 604 p. (MLRA 8:10)  
(Electronic measurements)



FROLKIN, Viktor Tikhonovich

N/5  
741.75  
.F9

INDIKATORNOYYE USTROYSTVA; KONSPEKT LEKTSIY; GENERIROVANIYE I ISLENIYE  
ELEKTRICHESKIKH KOLEBANIY DLYA SOZDANIYA RAEVERTOK (MEASURING INSTRUMENTS)  
MOSKVA, OBORONIZ, 1956. 173 p. ILLUS., DIAGRS. AT HEAD OF TITLE: MOSCOW:  
AVIATIONNIY INSTITUT. "LITERATURA": p. 172.

~~FRANKLIN, V. T.~~  
FROLKIN, V. T.

"An Analysis of Sawtooth-Current Generator Circuits for the Formation of a Range Scanning Beam in Radar Indicators," pp 55-70, ill, ref

Abst: The author examines the characteristics of sawtooth generator circuits as related to initial scanning distortions. Primary attention is devoted to the effect of stray capacitance, bypassing the deflecting coil, on distortion of the linear law of change of the deflecting current.

SOURCE: Trudy MAI im. S. Ordzhonikidze MVO SSSR (Works of the Moscow Aviation Institute imeni S. Ordzhonikidze of the Ministry of Higher Education USSR), No 83, Some Problems of Superhigh-Frequency and Pulse Technology, Moscow, Oborongiz, 1957

Sum 1854

SOV/142-58-4-26/30

AUTHOR: Frolkin, V.T., Docent

TITLE: The Moscow Institute of Aviation (Radio Engineering Dept.) (Moskovskiy aviatsionnyy institut (radio-tekhnicheskiy fakul'tet)

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy - Radiotekhnika, 1958, Nr 4, pp 514-515 (USSR)

ABSTRACT: Two theses are discussed in this paper: 1) Grineva, K.I. - Antenna for Surface Waves with Slight Retardation of Phase Velocity. 2) Tsvetnov, V.V. - Theoretical Investigation of the Action of Gaussian Interference on Two-Channel Phase Systems.

ASSOCIATION: Moskovskiy aviatsionnyy institut; radiotekhnicheskiy fakultet (Moscow Institute of Aviation; Radio Engineering Dept. )

Card 1/1

SOV/142-58-5-18/23

9(3)  
AUTHOR: Frolkin, V.T., Candidate of Technical Sciences  
TITLE: Research in the "Vuz". Brief Information. Moscow Aviation Institute of the Order of Lenin imeni Sergo Ordzhonikidze  
PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy - radiotekhnika, 1958, Nr 5, p 623 (USSR)  
ABSTRACT: The article gives the names of researchers of the institute. The following are mentioned: M.S. Neyman, M.N. Andriyevskiy, O.P. Kozintseva, D.I. Voskresenkiy, L.N. Deryugin, Prof. I.S. Gonorovskiy, V.T. Frolkin, V.B. Silin, K.I. Grineva, V.V. Tsvetnov and G.A. Zuykina.  
SUBMITTED: March 29, 1958

Card 1/1

9(4)

PHASE I BOOK EXPLOITATION

SOV/2235

Frolkin, Viktor Tikhonovich

Indikatornyye ustroystva; konspekt lektsiy. Generirovaniye impul'sov osnovnyye tipy dvumernykh indikatorov (Indicator Devices; Summary of Lectures. Generation of Pulses and Basic types of Two-dimensional Indicators) Moscow, Oborongiz, 1959. 203 p. (Series: Moscow. Aviatsionnyy institut imeni Sergo Ordzhonikidze) Errata slip inserted. 16,500 copies printed.

Ed.: A.I. Ivanov-Tsyganov, Candidate of Technical Sciences; Managing Ed.: A.S. Zaymovskaya, Engineer; Ed. of Publishing House: M.S. Anikina; Tech. Ed.: V.P. Rozhin.

PURPOSE: This book is intended for engineers concerned with the generation and shaping of pulses, with particular application to radar indicator circuits.

COVERAGE: The book is the second part of the enlarged edition of lectures on "Indicator Devices" delivered by the author at the Radio Engineering Department of Moscow Aviation Institute

Card 1/6

Indicator Devices: (Cont.) SOV/2235  
 during 1950-1955. The author discusses the principles of generating voltage pulses by means of multivibrators, phantastons, blocking oscillators, delay-line generators, amplitude limiters and differentiating and integrating circuits. He also describes devices for time delay of pulse signals, and basic types of indicators used in radar. No personalities are mentioned. There are 4 references, all Soviet (including 2 translations).

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Indicator Devices; (Cont.)

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Indicator Devices; (Cont.)

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Indicator Devices; (Cont.)

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Bibliography

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AVAILABLE: Library of Congress:

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JP/ec  
10-12-59

06532

SOV/142-2-2-8/25

9(2,3)

AUTHORS:

Frolkin, V.T., Markus, G.V.

TITLE:

The Analysis of a Differentiator Amplifier

PERIODICAL:

Izvestiya vysshikh uchebnykh zavedeniy, Radiotekhnika, 1959, Vol 2, Nr 2, pp 186-194 (USSR)

ABSTRACT:

The authors analyze the accuracy of an operational differentiator amplifier taking into consideration parasitic circuit elements. Figure 2 shows a block diagram of such an operational differentiator amplifier. Figure 3 shows the principal circuits of a single-stage operational differentiator amplifier. In their conclusions, the authors give some recommendations for selecting the principal amplifier parameters based on the formulae of the analysis. There are 4 circuit diagrams and 2 Soviet references.

Card 1/2

06532

SOV/142-2-2-8/25

The Analysis of a Differentiator Amplifier

This article was recommended by the  
Kafedra radioustroystv Moskovskogo ordena Lenina  
aviatsionnogo instituta imeni Sergo Ordzhonikidze  
(Chair of Radio Equipment of the Moscow - Lenin Order  
- Aviation Institute imeni Sergo Ordzhonikidze)

SUBMITTED: May 16, 1958 (initially)  
June 23, 1958 (after revision)

Card 2/2

05215

SOV/142-2-3-23/27

9(2,3)

AUTHOR:

Frolkin, V. T., Docent

TITLE:

Theses for Acquiring the Scientific Degree of Candidate of Sciences

PERIODICAL:

Izvestiya vysshikh uchebnykh zavedeniy, Radiotekhnika, 1959, Vol 2, Nr 3, p 380 (USSR)

ABSTRACT:

G.A. Komarov, defended his thesis for acquiring the scientific degree of a Candidate of Sciences titled "Peculiarities of the Functioning of Semiconductor Diodes and Transistors at High Voltage Levels" (Osobennosti raboty poluprovodnikovyykh diodov i triodov pri bol'shikh urovnyekh napryazheniy). The thesis was performed under the guidance of Professor, Doctor of Technical Sciences I. S. Gonorovskiy. The thesis was defended on June 30, 1958, against the official opponents Doctor of Technical Sciences R. A. Valitov and Candidate of Technical Sciences A. I. Ivanev-Tsyganov. The author of the thesis investigated theoretically and experimentally the properties of the p-n junction capacitance: Its dependence on the direct voltage applied at the junction, the current flowing through the junction, the amplitude of high-frequency

Card 1/2

SOV/142-2-5-13/19

AUTHOR: Frolkin, V.T., Docent

TITLE: Defense of Dissertations - Dissertations for Obtaining the Scientific Degree of Candidate of Sciences

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Radiotekhnika, 1959, Vol 2, Nr 5, p 629 (USSR)

ABSTRACT: On 9 March 1959, L.I. Telyatnikov defended his candidate's dissertation "The Investigation of Spectrums of Amplitude-Modulated Signals in the Presence of an Additional Frequency or Phase Modulation". Scientific supervisor was Doctor of Technical Sciences M.S. Neyman. Official opponents were Merited Worker of Science and Engineering of the RSFSR, Doctor of Technical Sciences, Professor I.S. Gonorovskiy and Candidate of Technical Sciences, Zagoryanskiy. L.I. Telyatnikov conducted general theoretical investigation of the oscillation spectrums of one and the same signal, modu-✓

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SOV/142-2-5-13/19

Defense of Dissertations - Dissertations for Obtaining the  
Scientific Degree of Candidate of Sciences

the general theory of spectrums with mixed modulations  
were checked experimentally.

ASSOCIATION: Moskovskiy ordena Lenina aviatsionnyy institut imeni  
Sergo Ordzhonikidze (Moscow - Order of Lenin - Avia-  
tion Institute imeni Sergo Ordzhonikidze) ✓

Card 3/3

Problems in Pulse Technique (Cont.)

SOV/5197

schools of higher education.

COVERAGE: The articles describe the results of investigations carried out by the MAI (Moscow Aviation Institute) on the following subjects: stability of the operation of multivibrator circuits; comparative analysis of relaxation oscillators with a capacitive plate-grid coupling (phantastron oscillators); a device for pulse-code modulation of voltage into a binary digital code; analysis of the stability of the moment of synchronization of a driven blocking oscillator, and a number of other problems of pulse technique. No personalities are mentioned. References accompany all the articles.

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Silin, V. B. Duration of a Multivibrator Pulse as Function of Voltage Variations of the Plate Power-Supply Source	5
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23632

S/535/60/000/126/001/002  
E140/E435

9,3280 (1147,1159)

AUTHORS: Markus, G.V., Engineer and  
Frolkin, V.T., Candidate of Technical Sciences

TITLE: Analysis of relaxation pulse generators with anode-grid  
coupling (phantastron generators)

PERIODICAL: Moscow. Aviatsionnyy institut. Trudy. No.126. Moscow,  
1960. pp.45-66. Voprosy impul'snoy tekhniki i  
elektronnykh i elektronnykh vychislitel'nykh  
ustroystv

TEXT: The authors are seeking analytical relationships permitting  
estimate of the performance of a given phantastron type circuit.  
The method employed is that of a quasi-linear approximation to the  
two characteristics, based on a Taylor series expansion of a  
function of several variables, retaining only the linear terms.  
From this an equivalent circuit of the two is obtained, from which  
the equivalent circuit of the relaxation oscillator is found.  
The differential equations of the latter are solved and since the  
solution contains exponential terms, these are expanded in series  
and again only the linear terms retained. On the basis of these  
pyramided approximations, the waveforms of the anode and screen  
Card 1/2

23632

Analysis of relaxation ...

S/535/60/000/126/001/002  
E140/E435

circuit pulses, the time delay and the behaviour of high-precision  
phantastrons with cathode follower and bootstrap configurations  
calculated. There are 14 figures and 1 Soviet reference. X

Card 2/2

FROLKIN, Viktor Tikhonovich; DULIN, V.N., red.; IVANUSHKO, N.D., red.;  
SMUROV, B.V., tekhn.red.

[Pulse techniques] Impul'snaia tekhnika. Pod red. V.N.Dulina.  
Moskva, Izd-vo "Sovetskoe radio," 1960. 359 p. (MIRA 13:5)  
(Pulse techniques (Electronics))

MARKUS, G.V., inzh.; FROLKIN, V.T., kand.tekhn.nauk

Analysis of relaxation pulse generators with plate-grid coupling  
(phantastron generators). Trudy MAI no.126:45-65 '60.

(MIRA 14:1)

(Pulse techniques (Electronics))  
(Oscillators, Electric)

TYUTIN, A.A., inzh.; FROLKIN, V.T.; MARKUS, G.V.

In regard to V.T.Frolkin and G.V.Markus' article. Izv. vys. ucheb.  
zav.; radiotekh. 4 no.1:118-119 Ja-F '61. (MIRA 14:4)

1. Institut elektrotekhniki AN USSR (for Tyutin).  
(Amplifiers (Electronics))

FROLKIN, V.T.

Concerning the training of radio engineers. Izv. vys. ucheb. zav.;  
radiotekh. 4 no.4:506-507 J1-Ag '61. (MIRA 14:11)

1. Dekan radiotekhnicheskogo fakul'teta Moskovskogo aviatsionnogo  
instituta imeni Sergo Ordzhonikidze.  
(Radio)

FROLKIN, V.T.

Derivation of a linearly varying current in self-inductance  
coils. Izv. vys. ucheb. zav.; radiotekh. 4 no.5:549-559  
S-O '61. (MIRA 14:12)

1. Rekomendovana kafedroy Moskovskogo ordena Lenina aviatsionnogo  
instituta imeni Sergo Ordzhonikidze.  
(Radio circuits)

FROLKIN, V.T.

Special features in the performance of operational integrating transistor amplifiers. Radiotekh. i elektron. 7 no.2:339-342 F '62.  
(MIRA 15:1)

(Transistor amplifiers) (Pulse techniques (Electronics))



34259

S/142/61/004/005/002/014

E192/E382

9.2580 (1040, 1163)

AUTHOR: Frolkin, V.Y.

TITLE: Generation of a linearly changing current in inductive coils

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Radiotekhnika, v. 4, no. 5, 1961, 549 - 559

TEXT: The system analyzed is illustrated in Fig. 1. It is employed for driving the deflection coils of a cathode-ray tube (picture tube in television). It is assumed for the purpose of analysis that in the absence of the control voltage at the grid, the tube is cut-off by the negative bias  $E_g$  (see Fig. 1a). The deflection current flowing in the coil can be expressed by:

$$i(p) = \frac{S}{LC} \frac{e(p)}{(p - p_1)(p - p_2)} \quad (2)$$

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S/142/61/004/005/002/014  
E192/E382

Generation of ....

where  $S$  is the slope of the tube and  
 $p_1$  and  $p_2$  are the roots of the characteristic  
equation:

$$p^2 + mp + q = 0 \quad (3)$$

where:

$$m = \left[ \frac{r}{L} + \frac{1}{CR_3} \right]; \quad q = \frac{1}{CL} \left( 1 + \frac{r}{R_3} \right); \quad R_3 = \frac{R_i R}{R_i + R}.$$

+

It is assumed that in the interval 0 to  $\tau$  the control  
voltage  $e(t)$  changes trapezoidally, i.e.:

$$e(t) = at + \beta.$$

In this case, the solution of Eq. (3) for the case of critical  
damping is in the form of:

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31259

S/142/61/004/005/002/014

E192/E382

Generation of ....

$$\alpha_T = \frac{T_0^2}{LC} S\alpha = \frac{S\alpha}{1 + \frac{r}{R_{\text{экп}}}} \approx \alpha S. \quad (5) .$$

It is seen therefore that this rate is dependent on the characteristic of the tube. This deficiency can be compensated by employing a negative current feedback system, illustrated in Fig. 4a. It is shown that in this case  $\alpha_T$  is independent of the characteristics of the tube but it is not possible to compensate the initial frequency distortion or the duration of the flyback. The case when the circuit is damped by a resistance  $R < R_{\text{экп}}$  is also analyzed and it is shown that the rate of rise is given by  $S\alpha/LCq$ . This system is disadvantageous in that its flyback is comparatively long. It is therefore preferable to employ negative feedback with respect to the voltage on the deflection coil; in this case, the equivalent resistance of the tube is reduced so that the damping resistance  $R$  from the anode circuit can be eliminated.

Card 4/10

34259

S/142/61/004/005/002/014  
E192/E382

Generation of ....

The current-rise rate can now be expressed as  
 $\alpha_T = \alpha K_0 S / (1 + K_0 S r)$  where  $K_0$  is the gain of the feedback-loop amplifier. In this system the length of the linear portion of the deflection current can exceed considerably the time interval  $T_2 = CR_i$ . In practice, the simplest circuit of this type is obtained by inserting the deflection coil into the cathode circuit of the tube and applying a trapezoidal voltage to its grid. The above formulae are employed to design a deflection system, it being assumed that the following quantities are given:  $\alpha_T$ ; duration of the forward deflection  $\tau$ ; repetition period  $T$ ; parameters of the deflection coil ( $L, r, C$ ); anode supply voltage for the tube; maximum permissible value of the initial frequency distortion; the nonlinearity of the deflection current and the instability of the current slope due to the variation of the tube characteristics. There are 6 figures, 1 table and 4 Soviet-bloc references.

Card 5/8 C

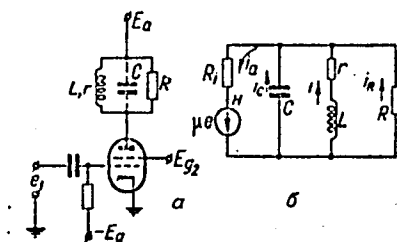
Generation of ....

34259  
S/142/61/004/005/002/014  
E192/E382

ASSOCIATION: Kafedra Moskovskogo ordena Lenina aviatsionnogo  
instituta imeni Sergo Ordzhonikidze (Department  
of the Moscow Order of Lenin Aviation Institute  
imeni Sergo Ordzhonikidze)

SUBMITTED: January 4, 1961

Fig. 1:



Card 6/8 ζ

*FROLKINA, L. A.*

USSR/Soil Science. Tillage. Melioration, Erosion.

J-4

Abs Jour : Ref Zhur - Biol., No 5, 1958, 20082

Author : Antipov-Karatayev, I.H., Yurii, I.A., Frolkina, L.A.,  
Kader, G.M.

Inst : -

Title : The Meliorative Appropriation of Solonetz Soils in the  
Chernozem Zone (Results of Experiments at the Kamennaya  
Steppe).

Orig Pub : Pochvovedeniye, 1957, No 2, 1-17.

Abstract : By means of a special physico-chemical prognostic method  
of possible utilization of soil gypsum and carbonate layers,  
the foundation has been laid for several practical methods  
of self-melioration for solonetz soils. To set up a sys-  
tem of meliorative measures, these investigations were  
used on the solonetz soils of the central chernozem zone  
(Kamennaya Steppe). By using this method of forecasting  
the possibility of solonetz soil self-melioration,

Card 1/2

*Soil Inst. in Dokuchayev AS USSR*

5(4), 5(2)

AUTHORS:

Zarinskiy, V. A., Frolkina, V. A., SOV/75-14-2-6/27  
Farafonov, M. M.

TITLE:

High-voltage Electrodialysis (Vysokovol'tnyy elektrodializ).  
Communication 2. On the Separation of Impurities From Meta-  
stannic Acid (Soobshcheniye 2. O vydelenii primesey iz meta-  
olovyanoy kisloty)

PERIODICAL:

Zhurnal analiticheskoy khimii, 1959, Vol 14, Nr 2, pp 181-183  
(USSR)

ABSTRACT:

In the present paper the possibility of a quantitative separation of impurities from metastannic acid by electrodialysis is investigated. Precipitations of metastannic acid were used which contained impurities of the order of magnitude of 0.1%. Metastannic acid was produced by two different methods, both of them being described in this paper. According to method 1 (treatment of metallic tin with concentrated nitric acid) compact precipitations were obtained, according to the second method (precipitation of  $\text{Sn}(\text{OH})_4$  with concentrated ammonia) loose, rather amorphous precipitations were formed. Electrodialysis was performed using cellophane membranes. The sample was introduced into the middle chamber of a three-chamber analyzer. The cathode chamber was filled with nitric acid ( $10^{-1} - 10^{-3}$  N), the two other chambers with bidistilled water.

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High-voltage Electrodialysis. Communication 2. On the Separation of Impurities From Metastannic Acid

SOV/75-14-2-6/27

The experiments were continued until the margining of the minimum current intensity (5-7  $\mu$ a) and the corresponding maximum voltage (2000 v). The samples taken from the cathode- and anode chamber in periodic intervals were analyzed photo-colorimetrically and polarographically. It was found that the separation of iron, copper, lead, and cadmium from gels of metastannic acid, produced according to method 2, takes place more easily because these gels have a stronger amorphous structure and more strongly dispersed particles than the gels obtained according to method 1. From amorphous precipitations, however, impurities cannot be separated quantitatively and not to the same extent. The per cent content of iron may be reduced by electrodialysis by a tenth power while the per cent content of the remaining metals (Cu, Pb, Cd) may be reduced by approximately half of a tenth power. Practically no separation of impurities from metastannic acid produced according to method 1 was observed. The authors also carried out experiments on the separation of unweighable amounts of radioactive lead (Th B) and antimony ( $^{125}\text{Sb}$ ). The distribution of radioactivity in the anode- and cathode solution and in the

Card 2/3



High-voltage Electrodialysis.

SOV/75-14-2-6/27

Communication 2. On the Separation of Impurities From Metastannic Acid

ashes of the two membranes after the end of electrodialysis showed that unweighable amounts of lead and antimony cannot be separated from metastannic acid by electrodialysis. The results of spectrum analysis of samples of metastannic acid produced by both methods after the dialysis are summarized in a table; in a further table the distribution of radioactivity of Th B in the three chambers and the membranes after electrodialysis is given. The authors thank G. N. Bilimovich for the preparation of Th B. There are 2 tables and 2 Soviet references.

ASSOCIATION: Institut geokhimii i analiticheskoy khimii im. V. I. Vernadskogo AN SSSR, Moskva  
(Institute of Geochemistry and Analytical Chemistry imeni V. I. Vernadskiy of the AS USSR, Moscow)

SUBMITTED: April 11, 1957

Card 3/3

ZARINSKIY, V.A.; FROLKINA, V.A.; GOLUBEV, A.D.

Measurement of the  $p^H$  by means of electrodes made of lithium glass. Zav.lab. 27 no.2:223-225 '61. (MIRA 14:3)

1. Institut geokhimii i analiticheskoy khimii imeni V. I. Vernadskogo AN SSSR.

(Hydrogen-ion concentration)

ZARINSKIY, V.A.; FROLKINA, V.A.

Titration with an anode polarized platinum electrode. Reduction of rhenium to tetravalent rhenium by means of a divalent chromium salt solution. Zhur.anal.khim. 17 no.1:75-79 Ja-F '62.

(MIRA 15:2)

1. V.I.Vernadsky Institute of Geochemistry and Analytical Chemistry, Academy of Sciences U.S.S.R., Moscow.

(Rhenium--Analysis)

BUSEV, A.I.; FROLKINA, V.A.

Extraction of pentavalent molybdenum. Zhur. neorg. khim. 9 no.10:  
2481-2484 0 '64. (MIRA 17:12)

1. Moskovskiy gosudarstvennyy universitet im. M.V. Lomonosova.

BUSEV, A.I.; FROKINA, E.A.

Dependence of the distribution coefficient on metal concentration  
in the aqueous phase in the system pentavalent molybdenum - hydro-  
chloric acid - oxygen-containing solvent. Vest. Mosk. un. Ser. 2:  
Khim. 20 no.2:72-76 Mr-Apr '65. (MIRA 18:7)

1. Kafedra analiticheskoy khimii Moskovskogo universiteta.

FROLKINA, W.A.; BUSEV, A.I.

Extraction of pentavalent molybdenum as dependent on solvent concentration in benzene solutions. Vest. Mosk. un. Ser. 2: Khim. 20 no. 5:64-68 S-O '65. (MIRA 18:12)

1. Kafedra analiticheskoy khimii Moskovskogo gosudarstvennogo universiteta. Submitted Nov 20, 1964.

L 16087-65 EWT(m)/EPF(n)-2/EWP(t)/ENP(b) Pu-4 IJP(c)/ASD(f)-2/ASD(m)-3  
JD/JG  
ACCESSION NR: AP4046456 S/0078/64/009/010/2481/2484

AUTHOR: Busev, A. I.; Frolkina, V. A.

TITLE: Extraction of pentavalent molybdenum 27

SOURCE: Zhurnal neorganicheskoy khimii, v. 9, no. 10, 1964, 2481-2484

TOPIC TAGS: molybdenum, extraction, organic solvent extractant, pentavalent molybdenum, hexavalent molybdenum, tributyl phosphate, coefficient of distribution, hexavalent pentavalent molybdenum separation

ABSTRACT: The possibility of extracting pentavalent molybdenum from HCl solutions with organic solvents was investigated. The extraction of penta- and hexavalent molybdenum ( $5 \times 10^{-3}$  mol/l) from HCl solutions of different concentrations was attempted with different classes of organic solvents: benzene, nitrobenzene, chloroform; diethyl-, methylpropyl-, diisopropyl-, n-propyl-, b,b'-dichlorodiethyl-, and dibutyl ethers; isoamyl alcohol, isoamyl ketone, tributylphosphate, methylpropyl ketone and methylheptyl ketone. Very little  $\text{Mo}^{+5}$  was extracted with

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L 16087-65

ACCESSION NR: AP4046456

the first three solvents; subsequent work was devoted to the oxygen-containing compounds. With simple ethers the distribution curves for the  $\text{Mo}^{+5}$  showed a continuous increase as HCl concentration increased up to about 6 molar, with the coefficient decreasing as the dimensions and weight of the organic molecule increased. The distribution curve had a maximum at 5.5-6M HCl for diethyl and methyl-propyl ether, and at 7.5-8M HCl for the di-n-propyl and diisopropyl ethers. The extraction of  $\text{Mo}^{+5}$  thus depended on the complex-forming ability of the organic extractant, on the size of the molecule, the basicity and the steric accessibility of the oxygen atom. Tributylphosphate was the most effective extractant (fig. 1). The nature of the distribution curves for  $\text{Mo}^{+6}$  was essentially the same as those of the  $\text{Mo}^{+5}$ ; therefore separation of penta- and hexavalent molybdenum by these solvents is not possible. These extractions maybe a means of separating molybdenum from accompanying elements in the analysis of different objects. Orig. art. has: 3 figures.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova  
(Moscow State University)

SUBMITTED: 10Jul63

ENCL: 01

SUB CODE: GC

NO REF SOV: 004

OTHER: 012

Card 2/3



L 16087-65  
ACCESSION NR: AP4046458

ENCLOSURE: 01

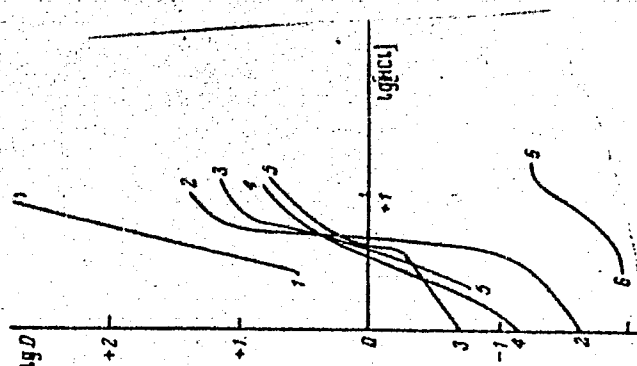


Fig. 1

Dependence of distribution coefficient on initial hydrochloric acid concentration in the extraction of pentavalent molybdenum with organic solvents. 1--20% tributyl-phosphate in benzene; 2--isoamylacetate; 3--isoamyl alcohol; 4--methylpropylketone; 5--methylheptylketone; 6--nitrobenzene

Card 3/3

FROL'KIS, A.V., kand. med. nauk; PINSON, N.M.

Clinical aspects of gasoline pneumonia. Sov. med. 26 no.11:  
140-141 N'62 (MIRA 17:3)

FROL'KIS, A.V.

USSR/Human and Animal Physiology - Nervous System.

R-12

Abs Jour : Referat Zhur - Biologiya, No 16, 1957, 71107

Author : Frol'kis, V.V., Frol'kis, A.V.

Title : Mechanism of Reflex Reaction Adaptation.

Orig Pub : Fizio. Zh. SSSR, 1956, 42, No 10, 854-860

Abstract : Prolonged adaptation (A) in reflex influences from the upper respiratory tracts on the cardiovascular system leads to the weakening of the pressor effect from the stimulation of the rectum, and to the strengthening of the depressor reaction from the stimulation of the lower part of the trachea and bronchi. The A of the oculo-cardiac reflex by the stimulation of one eye may lead to reduced reflex influences from the other eye. Similar differences in the A of one reflex on the reaction from other receptive poles may be explained by complex changes in the nerve centers through adaptation.

Card 1/1

*Main Normal Physiol., Rev. Med. Sci.*

FROL'KIS, A.V. (Leningrad)

Comparative rating of several methods for making a functional diagnosis  
of concealed disorders of the large intestine. Vrach.delo no.8:869  
Ag '58 (MIRA 11:8)

(INTESTINES--DISEASES)

FROL'KIS, A.V., TEPUOV, S.I.

Changes in the secretomotor activity of the stomach in experimental  
gastritis [with summary in English]. Biul.eksp.biol. i med. 46  
no.8:44-48 Ag '58 (MIRA 11:10)

1. Iz Leningradskogo okruzhnogo voyennogo gospihalya (nach. N.S.  
Sokolov) Predstavlena deyствitel'nyy chlenom AMN SSSR M.D. Tushinskim.  
(GASTRITIS, exper.  
eff. on secretomotor activity of stomach in dogs (Rus))  
(STOMACH, physiol.  
eff. of exper. gastritis on secretomotor activity in  
dogs. (Rus))

PROL'KIS, A.V. (Leningrad)

Disorders of gastric secretory and motor functions in experimental  
gastritis [with summary in English]. Pat.fiziol. i eksp.terap. 3  
no.1:55-61 Ja-Y '59. (MIRA 12:2)  
(GASTRITIS, exper.  
eff. on stomach secretory & motor funct. (Rus))

PROL'KIS, A.V., kand.med.nauk (Leningrad)

Clinical importance of coprological study in peptic ulcer and chronic gastritis. Vrach.delo no.10:1045-1049 0 '59. (MIRA 13:2)

1. Kafedra gosptal'noy terapii No.1 (nachal'nik - chlen-korrespondent AMN SSSR, prof. N.S. Molchanov) Voenno-meditsinskoy akademii imeni S.M. Kirova.

(STOMACH--INFLAMMATION) (PEPTIC ULCER) (FECES--ANALYSIS)

PROL'KIS, A.V., kand.med.nauk

Antagonistic effect of antibiotics and vitamins on certain intestinal functions. Terap.arkh. 31 no.12:31-39 D '59. (MIRA 13:4)

1. Iz kafedry gosital'noy terapii No.1 (nachal'nik - chlen-korrespondent AMN SSSR prof. N.S. Molchanov) Voenno-meditsinskoy ordena Lenina akademii imeni S.M. Kirova.  
(VITAMINS pharmacol.)  
(TETRACYCLINE pharmacol.)  
(INTESTINES pharmacol.)



PROL'KIS, A.V. (Leningrad)

Effect of antibiotics and sulfonamides on the excretion of intestinal  
enzymes with feces. Antibiotiki 5 no.4:101-105 J1-Ag '60.

(ANTIBIOTICS)

(SULFONAMIDES)

(MIRA 13:9)  
(ENZYMES)

FROL'KIS, A.V., podpolkovnik meditsinskoy sluzhby, kand.meditsinskikh nauk

Functional disorders of the large intestine in peptic ulcer and chronic gastritis. Voen.-med. zhur. no. 6:65-71 Je '60.

(MIRA 13:7)

(PEPTIC ULCER) (STOMACH—INFLAMMATION)  
(INTESTINES—DISEASES)

FROL'KIS, A.V. (Leningrad)

Effect of pantothenic acid on gastric secretion and acidity.  
Vop. pit. 20 no. 1:42-44 Ja-F '61. (MIRA 14:2)  
(GASTRIC JUICE) (PANTOTHENIC ACID)

FROL'KIS, A.V. (Leningrad)

Dietic treatment of peptic ulcer and chronic gastritis and the condition of the intestines. Vop. pit. 21 no.1:18-22 Ja-F '62.

(MIRA 15:2)

(PEPTIC ULCER) (INTESTINES) (STOMACH\_\_INFLAMMATION)  
(DIET IN DISEASE)

FFOL'KIS, A.V., kand.med.nauk (Leningrad)

Effect of some medicaments in disorders of the chemism and  
motor activity of the large intestine. Kaz.med.zhur. no.3:22-24  
My-Je '62. (MIRA 15:9)  
(INTESTINES--DISEASES) (DRUGS)

FROL'KIS, A.V. (Leningrad)

Role of reflexes from the large intestine in the pathogenic mechanisms supporting the chronic course of stomach diseases.  
Pat. fiziol. i eksp. terap. 6 no.6:58-60 N-D'62 (MIRA 17:3)

1. Iz kafedry gosspital'noy terapii No.1 (nachal'nik - deystvitel'nyy chlen AMN SSSR prof. N.S. Molchanov) Voenno-meditsinskoy ordena Lenina akademii imeni Kirova.

FROL'KIS, A. V.

Dissertation defended at the Institute of Physiology imeni I. P. Pavlov  
for the academic degree of Doctor of Medical Sciences;

"Disorders of Small Intestine Functions During Stomach Disorders."

Vestnik Akad Nauk, No. 4, 1963, pp. 119-145

FROL'KIS, Abram Veniaminovich, doktor med. nauk; KOMAROV, F.I.,  
red.

[Functional interrelations between the intestine and the  
stomach] Funktsional'nye vzaimosvazi kishechnika i zhe-  
ludka. Leningrad, Meditsina, 1964. 205 p.

(MIRA 17:4)



GOREV, Nikolay Nikolayovich, red.; KAN'KOVSKIY, B.N., red.; MARCHUK, P.D., red.; SACHUK, N.K., red.; FROL'KIS, D.F., red.; CHEBOTAREV, D.F., red.; SHUMPOVA, Ye.A., red.; GOL'SHTEYN, N.I., red.; LEBEDEVA, Z.V., tekhn. red.

[Problems of gerontology and geriatrics] Voprosy gerontologii i geriatрии. Leningrad, Medgiz, 1962. 279 p. (MIRA 15:9)

1. Akademiya meditsinskikh nauk SSSR, Moscow. 2. Deystvitel'nyy chlen Akademii meditsinskikh nauk SSSR (for Gorev).

(GERIATRICS)

(OLD AGE)

FROL'KIS, V.V.

Mechanism of a convulsive seizure. Vop. fiziol. no.5:21-27 '53.  
(MLRA 8:1)

1. Kievskiy meditsinskiy institut, kafedra normal'noy fiziologii.  
(CONVULSIONS, physiology)

FROL(KIS, V. V.

USSR/Medicine - Cholinesterase  
Activity Nov/Dec 53

"The Effects of Phytoncides of Garlic and Synthetic  
Allyl Mustar: Oil on the Acetylcholine-Cholineste-  
rase System," M. M. Epshteyn, V. V. Frol'kis, Chair  
of Biochem and Normal Physiol, Kiev Med Inst in  
Acad O. O. Bogomolets

Medich Zhur, Vol 23, No 6, pp 73-76

Describe the results of exptl administration of  
aft mentioned drugs to frogs. On the basis of lab  
findings, the authors conclude that specific concns  
of phytoncides of garlic stimulate the vagus nerve

id  
p 274T29

and affect processes of metabolism that depend on  
ac /lcholine activity. Atropine counteracts  
the effects.

et  
ies

PROL'KIS, V.V.

Effect of pain stimulus on cardiovascular function. Vopr.fiziol.  
no.8:97-105 '54. (MIRA 14:1)

1. Kiyevskiy meditsinskiy institut.  
(PAIN, effects,  
on blood pressure in rabbits)  
(BLOOD PRESSURE, physiology,  
eff. of pain stimulus in rabbits)

FROL'KIS, V.V.

Analysis of adaptation mechanisms of unconditioned responses to the heart according to changes in conditioned reflex function. Zhur. vys.nerv.deiat. 4 no.5:705-711 S-0 '54. (MLRA 8:7)

1. Kafedra normal'noy fiziologii Kiyevskogo meditsinskogo instituta im. A.A.Bogomol'tsa.

(REFLEX, CONDITIONED,

adaptation of unconditioned reflexes of heart after conditioned reflex changes)

(REFLEX,

unconditioned, adaptation after conditioned reflex changes of heart)

(HEART, physiology,

unconditioned reflex adaptation after conditioned reflex changes)

YEROL'KIS, V.V.

Role of the interoceptive component in the mechanism of modification of reflex irritability of the heart during disease. Biul. eksp.biol.i med. 37 no. 3:21-24 Mr '54. (MLRA 7:6)

1. Iz kaferdry normal'noy fiziologii (sav.chlen AN USSR prof. G.V. Pol'bort) Kiyevskogo meditsinskogo instituta (dir. dots. T.Ya. Kalinichenko)

(MYOCARDITIS, experimental,

\*interoceptive factor in changes of reflex irritability in)

(REFLEX,

\*interoceptive factor in changes of reflex irritability  
in exper. myocarditis)

USSR/General Division. History. Classics.  
Personalities.

A-2

Abs Jour : Ref Zhur-Biologiya, No 20, 1957, 85053

Abstract : the relationship between the processes of fatigue and recovery which have been named by I. P. Pavlov "Fol'bort's Laws." In his doctoral thesis, "Negative Conditioned Reflexes," (1912), Fol'bort was the first to prove that a conditioned reflex may lead to a cortical inhibition and to suspended activity of the organ. Fol'bort's research on the stimulating influence of inhibition on the restoration processes is of great practical value. This work made it possible to explain the essence of the mechanism of the so-called "Sechenov's Phenomenon" (active rest). Fol'bort wrote more than one-hundred scientific works.

Card 2/2

PROL'SIK, V.V.; ZARECHANSKAYA, R.A.

Role of excitation and isolation of the higher sections of the central nervous system in the development of blood circulation disorders in spinal shock. Fiziol.zhur. [Ukr.] 1 no.6:46-53 N-D '55. (MLRA 10:1)

1. Kiivs'kiy medichniy institut, kafedra normal'noy fiziologii.  
(BLOOD--CIRCULATION, DISORDERS OF)  
(NERVOUS SYSTEM)  
(SPINAL CORD--WOUNDS AND INJURIES)



DUKHIN, A.L., kandidat meditsinskikh nauk; ~~PROL'KI~~<sup>PROL'KI</sup>~~SY~~<sup>SY</sup>.V., dotsent.

Trophic changes of the segmental apparatus of the spinal cord  
in myocardial infarcts. Klin.med.33 no.5:74-77 '55(MLRA 8:9)

1. Iz kafedry nervnykh bolezney (sav.deystvitel'nyy chlen  
AMN SSSR prof. B.N. Man'kovskiy) i kafedry normal'noy fiziologii  
(sav.deystvitel'nyy chlen AN USSR prof. G.V. Pol'bert) Kiyevskogo  
meditsinskogo instituta.

(SPINAL CORD, dis.

trophical changes caused by myocardial infarct)

(MYOCARDIAL INFARCT. compl.

trophical changes of spinal cord segmentary apparatus)

USSR/Medicine - Physiology

FD-2703

Card 1/1      Pub. 33-12/28

Author      : Frol'kis, V. V.

Title      : Change in the contractive power of the heart during its exhaustion and recovery

Periodical   : Fiziol. zhur. 41, 78-83, Jan-Feb 1955

Abstract    : Investigated the effect of the flow of the trophic process from exhaustion to recovery on the change in the contractive power of the heart, both isolated and in situ, of frogs and rabbits. Myocardiograms; blood pressure graph. Ten references, 7 of them USSR (5 since 1940)

Institution   : Chair of Normal Physiology of the Kiev Medical Institute

Submitted    : August 10, 1952

FROL'KIS, V.V.

ALEKSEYENKO, I.P., dotsent, redaktor; SHAMRAY, Ye.F., professor, redaktor;  
CHAYKA, Ye.I., professor, redaktor; MAN'KOVSKIY, B.N., professor,  
redaktor; CHERKES, A.I., professor, redaktor; PRIMAK, P.Ya., professor,  
redaktor; LIKHTENSHTAYN, Ye.I., dotsent, redaktor; FROL'KIS, V.V.,  
dotsent, redaktor; GLUZMAN, P.A., redaktor; LOKHMATYY, Ye.G.,  
tekhnicheskij redaktor

[Pathology of the cardiovascular system in clinical treatment and  
experiment] Patologiya serdechno-sosudistoi sistemy v kliniki i  
eksperimente. Kiev, Gos. med. izd-vo USSR, 1956. 241 p. (MLRA 10:2)

1. Kiyev. Meditsinskiy institut imeni A.A.Bogomol'tsa. 2. Deystvitel'-  
nyy chlen Akademii meditsinskikh nauk SSSR (for Man'kovskiy) 3.  
Chlen-korrespondent Akademii meditsinskikh nauk SSSR (for Cherkas)  
(CARDIOVASCULAR SYSTEM--DISEASES)

FROL'KIS, V.V., dotsent

New data on the mechanism of spasmodic paroxysm ("Studies of epilepsy; clinical and experimental" [in Rumanian] by A.Kreindler. Reviewed by V.V.Frol'kis. Fiziol.zhur. [Ukr.] 2 no.6:138-141 N-D '56.

(EPILEPSY) (KREINDLER, A.)

(MLRA 10:2)

FROL'KIS, V.V., ZARECHANSKAYA, R.A. (Kiyev)

Mechanism of blood circulation disorders in spinal shock.  
Arkh.pat. 18 no.4:113 '56.

(MIRA 11:10)

1. Iz kafedry normal'noy fiziologii (zav. - deystvitel'nyy chlen-korrespondent AN USSR prof. G.V. Fol'bort) Kiyevskogo meditsinskogo instituta (dir. - dots. I.P. Alekseyenko).

(BLOOD--CIRCULATION, DISORDERS OF)  
(SHOCK)

FROL'KIS, V.V.

USSR/Human and Animal Physiology - Nervous System.

R-12

Abs Jour : Referat Zhur - Biologiya, No 16, 1957, 71107

Author : Frol'kis, V.V., Frol'kis, A.V.

Title : Mechanism of Reflex Reaction Adaptation.

Orig Pub : Fizio. Zh. SSSR, 1956, 42, No 10, 854-860

Abstract : Prolonged adaptation (A) in reflex influences from the upper respiratory tracts on the cardiovascular system leads to the weakening of the pressor effect from the stimulation of the rectum, and to the strengthening of the depressor reaction from the stimulation of the lower part of the trachea and bronchi. The A of the oculo-cardiac reflex by the stimulation of one eye may lead to reduced reflex influences from the other eye. Similar differences in the A of one reflex on the reaction from other receptive poles may be explained by complex changes in the nerve centers through adaptation.

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*Chair of Normal Physiology, Kiev Med. Inst.*

*FROL'KUS, V.V.*

ALEKSEYENKO, I.P., dots., red.; GARKUSHA, L.V., dots., red.; GURVICH, S.S., dots., red.; KOSTRYUKOVA, K.Yu., prof., doktor biol.nauk, red.; SIROTININ, N.N., prof., red.; *FROL'KUS, V.V., dots., red.*; TREYGERMAN, I.I., tekhn.red.

[Philosophical problems in medicine and natural sciences] Nekotorye filosofskie voprosy meditsiny i estestvoznaniia; trudy Instituta. Kiev, 1957. 172 p. (MIRA 11:6)

1. Kiyev. Meditsinskiy institut imeni A.A.Bogomol'tsa. 2. Direktor Kiyevskogo ordena Trudovogo Krasnogo znamenii meditsinskogo instituta imeni akademika A.A.Bogomol'tsa (for Alekseyenko). 3. Deystvitel'-nyy chlen AMN SSSR (for Sirotinin)

(~~MEDICINE~~--PHILOSOPHY)

(~~SCIENCE~~--PHILOSOPHY)

FROM: FIS, V.V., Doc Med Sci--(disc) "Physiological characteristics  
of ~~the~~ reflexes <sup>in</sup> the cardio-vascular system." Kiev, 1958. 28 pp  
(Kiev Order of Labor Red Banner Med Inst in A.M. Bogomolets), 250 co-  
pies. List of author's works, pp 26-28 (28 titles) (H, 52-53, 113)



FROL'KIS, V.V., doktor med.nauk

Mechanism of blood circulation changes during a convulsive seizure.  
Vop. klin. nevr. i psikh. no.2:344-356 '58. (MIHA 14:10)  
(BLOOD CIRCULATION; DISORDERS OF) (CONVULSIONS)

KUL'CHITSKIY, K.I., FROL'KIS, V.V.

Experimental myocardial infarct [with summary in English]:  
Ekspер.khir 3 no.5:22-29 8-0 '58 (MIRA 11:11)

1. Iz kafedry normal'noy fiziologii (zav. - deystvitel'nyy chlen  
AMN USSR prof. G.V. Fol'hort) kafedry operativnoy khirurgii (zav -  
prof. S.T. Novitskiy) Kiyevskogo meditsinskogo instituta i kafedry  
anatomii (zav. - chlen-korrespondent AMN SSSR prof. B.A. Dolgo-Saburov)  
Voyenno-meditsinskoy akademii imeni S.M. Kirova.

(MYOCARDIAL INFARCT, exper.  
method of induction in dogs (Rus))

PROL'KIS, V.V., dots., MIL'KO, V.I.

Intracardiac interrelationships. Vrach.delo no.11:1151-1156 N'58  
(MIRA 12:1)

1. Kafedra fiziologii (zav. akad. AN USSR Yu.V. Pol'bort) i  
kafedra radiologii (zav. dots. N.F. Zarkevich) Kiyevskogo meditsinskogo  
instituta.  
(HEART--INFARCTION)

FROL'KIS, V.V.; MIL'KO, V.I.

Inclusion of radiophosphorus into various cardiac structures.  
Biul.eksp.biol. i med. 48 no.7:50-53 J1 '59. (MIRA 12:10)

1\* Iz kafedry fiziologii (zav. - deystvitel'nyy chlen AN USSR,  
prof.G.V.Fol'bort) i kafedry radiologii (zav. - dotsent N.F.  
Zarkevich) Kiyevskogo meditsinskogo instituta. Predstavlena  
deystvitel'nyy chlenom AMN SSSR B.N.Man'kovskim.

(MYOCARDIUM - metabolism)

(PHOSPHORUS - metabolism)

GOREV, N.N., otv.red.; MAKARCHENKO, A.F., red.; CHERKES, A.I., red.;  
GUREVICH, M.I., doktor med.nauk, red.; FROL'KIS, V.V., doktor  
med.nauk, red.; KONDRATOVICH, M.A., kand.med.nauk, red.; SHEZHIN,  
M.I., red.izd-va; YEFIMOVA, M.I., tekhn.red.

[Problems in the physiology and pathology of coronary circulation]  
Voprosy fiziologii i patologii koronarnogo krovoobrashcheniia.  
Kiev, 1960. 149 p. (MIRA 13:7)

1. Akademiya nauk USSR, Kiyev, Institut fiziologii. 2. Deyatvi-  
tel'nyy chlen AMN SSSR (for Gorev). 3. Chlen-korrespondent AN USSR  
(for Makarchenko). 4. Chlen-korrespondent AMN SSSR (for Cherkas).  
5. Institut fiziologii im. A.A.Bogomol'tsa AN USSR (Kiyev) (for  
Gurevich). 6. Kiyevskiy meditsinskiy institut im. A.A.Bogomol'tsa  
(for Frol'kis).

(CORONARY VESSELS)

FROL'KIS, V.V., doktor med.nauk

Special features of the categories of mutual relation in physiology.  
Nek.filos.vop.med.i est. no.2:267-281 '60. (MIRA 15:7)

1. Kafedra fiziologii Kiyevskogo meditsinskogo instituta imeni  
Bogomol'tsa.

(PHYSIOLOGY)

FROL'KIS, V.V.; SHCHEGOLEVA, I.V.

Interrealation of reflex changes in the general and local blood circulation. Biul. eksp. biol. i med. 50 no.10:7-12 0 '60.

(MIRA 14:5)

1. Iz kafedry normal'noy fiziologii (zav. - akademik G.V.Fol'bort [deceased]) Kiyevskogo meditsinskogo instituta (dir. - dotsent I.P.Alekseyenko). Predstavlena deystvitel'nym chlenom AMN SSSR B.N.Man'kovskim).

(BLOOD—CIRCULATION)

(REFLEXES)

FROL'KIS, V.V., MARKAROVA, A.F., CHAGOVETS, N.R., SHAMRAY, YE.F., MARKOSYAN, A.A.

"Determining the vitamin requirements of athletes and their utilization  
for increasing athletic work capacity."

Report submitted for the 13th Intl. Congress of Sports Medicine  
Moscow July-Aug 1961



FROLKIS, V. V.

"Fonctionnement des vaisseaux au cours du changement du metabolique  
dans la perol vasculaire"

Report submitted for the fourth Intl. Congress of Angiology  
Prague, Czech, 3-9 Sep 61

GOREV, N.N., otv. red.; GUREVICH, M.I., red.; KONDIATOVICH, M.A., red.;  
KOCHERGA, D.A., red.; MAKARCHENKO, A.F., red.; FOL'BORT, G.V.,  
[deceased], red.; FROL'KIS, V.V., red. FEDOROV, I.I., red.;  
GITSHEYN, A.D., tekhn. red.

[Problems in the physiology and pathology of the vascular tonus]  
Voprosy fizologii i patologii sosudistogo tonusa. Kiev, Gos. med.  
izd-vo USSR, 1961. 274 p. (MIRA 15:2)  
(HYPERTENSION) (BLOOD VESSELS) (REFLEXES)

FROL'KIS, V.V.

"Interceptors" by V.M.Chernihovs'kyi. Reviewed by V.V.Frol'kis.  
Fiziol. zhur. [Ukr.] 7 no.5:714-716 S-O '61. (MIRA 14:9)  
(VISCERA--INNERVATION) (CHERNIHOVS'KYI, V.M.)

PROL'KIS, V.V.

Specificity of responses to the cardiovascular system. Fiziol.zhur.  
47 no.3:293-300 Mr '61. (MIRA 14:5)

1. From the Medical Institute, Kiev.  
(CARDIOVASCULAR SYSTEM) (REFLEXES)